(No Model.)

F. HENKEL.

COMBINED BOTTLE RECEPTACLE AND STOPPER.

No. 426,811. Patented Apr. 29, 1890.

Fig. 1.

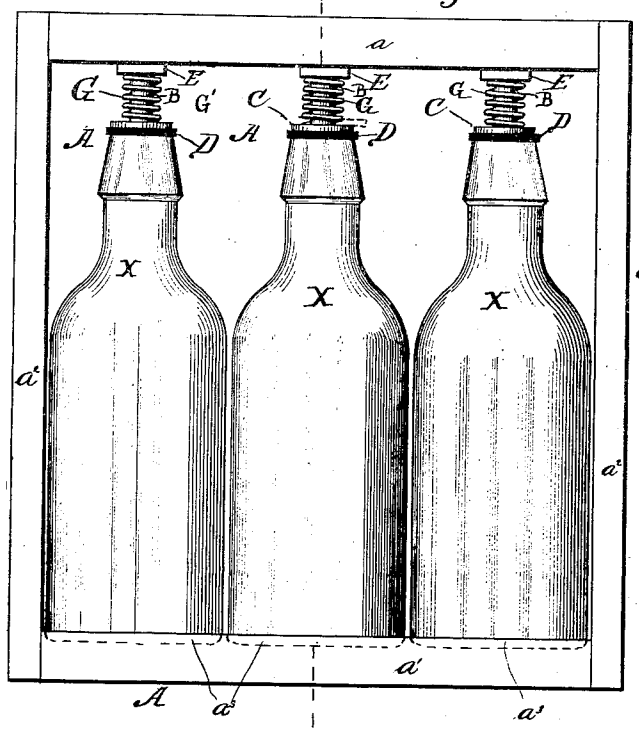


Fig. 2.

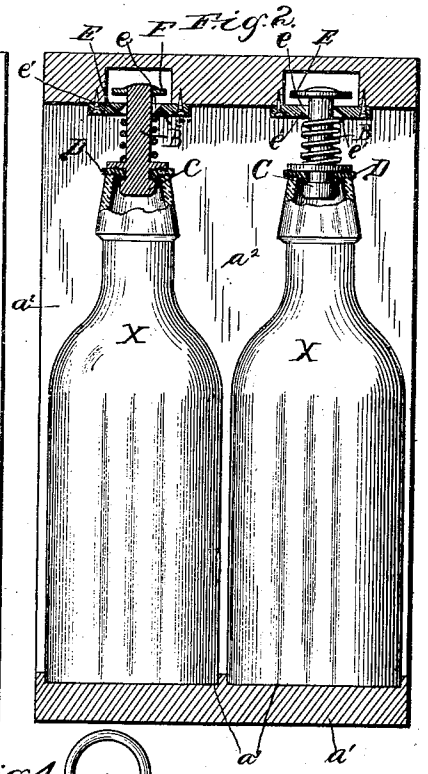


Fig. 3.

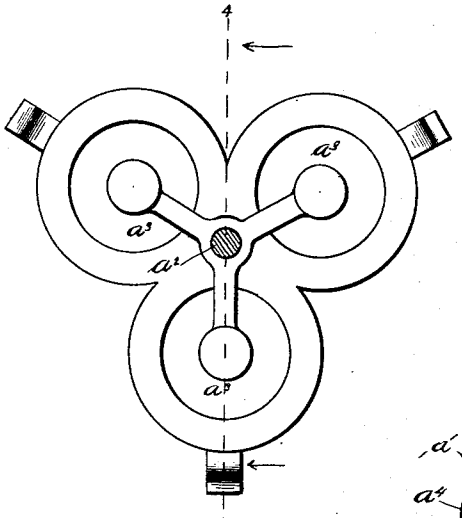
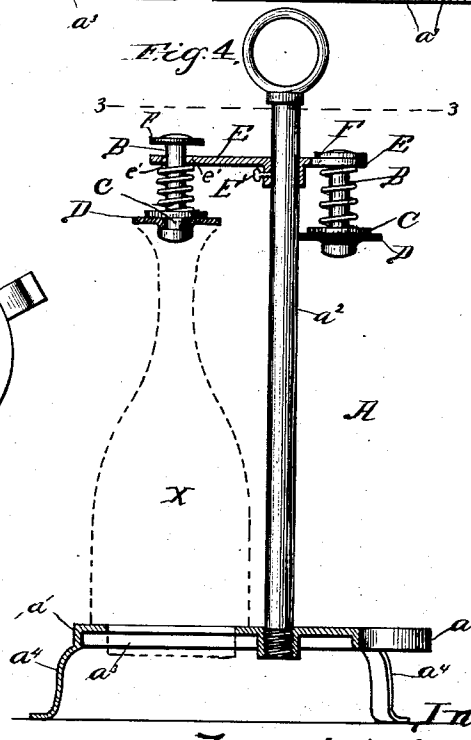


Fig. 4.



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UNITED STATES PATENT OFFICE.

FREDERICK HENKEL, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO WILLIAM A. HAUSBURG, OF SAME PLACE.

COMBINED BOTTLE RECEPTACLE AND STOPPER.

SPECIFICATION forming part of Letters Patent No. 426,811, dated April 29, 1890.

Application filed November 25, 1889. Serial No. 331,524. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK HENKEL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Combined Bottle Receptacle and Stopper for Bottles Placed Therein, of which the following is a specification.

My invention relates to receptacles or cases adapted to have placed therein bottles wholly or partially filled with liquids.

The invention is capable of embodiment in a form of construction particularly adapted for the transportation of the bottles and contents thereof placed in the receptacle or case, and is equally well adapted to and capable of construction in a form of receptacle designed to have placed therein bottles required for present and frequent use.

The purpose of my invention is to obtain a combined bottle receptacle and stopper, the receptacle or case having attached thereto and constructed therein or as a part thereof a stopper adapted to properly cork the bottle, which, in the construction of the receptacle or case, it is designed and intended to have placed therein.

In the constructions herein described, and illustrated in the drawings accompanying and forming a part of this specification, the first-described construction is, in my conception, the most available manner of reducing the invention to practice where a receptacle or case is desired adapted to form both a receptacle for holding the bottles properly corked and a case in which the bottles and contents may be shipped by rail or conveyance, and the second-described construction is a form of the device well adapted for a retaining-receptacle for holding the bottles and contents properly corked and in a desirable position for present and frequent use.

Where the construction reducing my invention to practice presents a case adapted for a receptacle and shipping-case, it is designed to have the bottles retained in the receptacle until the contents of the bottles are required for consumption or use, and where the contents of the bottles consist of mineral water, pop or small beer, lager-beer, and other light articles, the receptacles or case with the bottle and contents may and should be placed in a properly-cooled room or chamber or refrigerator and there remain until the contents of the bottles are withdrawn from them.

I have illustrated my invention by the drawings, indicating two of the various forms of construction of the device embodying my invention, and in these drawings—

Figure 1 is an elevation of a receptacle or case adapted for a transportation case and receptacle for holding the bottles and contents until such contents are required for use. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a plan view on line 3 3 of Fig. 4 of a present-use receptacle, and Fig. 4 is a section of the same on line 4 4 of Fig. 3.

Like letters refer to like parts throughout the several views.

A comparison of the two forms of construction will show that the form and manner of embodying the invention are substantially the same in each; but in order to the more readily describe the device I will for the present confine my description to the receptacle illustrated in Figs. 1 and 2.

A is the receptacle or case.

a is the top thereof, a' the bottom, and a^2 the sides or ends of receptacle A.

a^3 is a circular recess in the bottom a', of about the diameter of the bottle to be placed in the receptacle. This circular recess a^3, I have found advantageously useful where bottles of great length in comparison with their diameter are placed in the receptacle; but with bottles of the type commonly termed "squatty" I do not find great benefit can be derived therefrom, as such bottles are held with sufficient firmness in the receptacle or case without its use by the downward pressure exerted on the bottle by the stopper forming a part of the receptacle, which stopper is inserted in the neck of the bottle, thereby corking it, in addition to holding or materially assisting to hold it in position.

B is a stem, having a button C on the lower end thereof.

D is a washer on button C. This washer D has been constructed by me heretofore from a sheet of elastic rubber cloth or elastic rubber sheets. The stem B extends at its upper

end entirely through base E, through which there is formed the hole *e*.

e' e' are two sides of the hole *e*, which are cut diagonally through the base E, so as to permit the stem B to be brought forward for convenience in inserting a bottle in place in the receptacle, and at the same time to prevent the stem B from being pushed back beyond a perpendicular line as the bottle is forced back into place.

F is a washer on the upper end of stem B, and is there placed to hold the stem from becoming displaced from proper position when the bottle is not in place in the receptacle. The washer F is secured on the stem by battening down the upper end of the stem B, or by any suitable means.

G is a spring, one end of which abuts against the upper surface or side of the button C, and the other end of which abuts against the lower surface of the top *a* of the receptacle A.

The operation of the device is: In placing a bottle in the receptacle the neck of the bottle is brought up against the washer D and the bottle is then pressed firmly upward, thereby compressing the spring, which tends to force the stopper downward. When the spring is sufficiently compressed, the lower edge of the bottle is slid in on the bottom *a'* of the receptacle until the bottle is directly under the stopper. The spring, it is evident, will then force the bottle down against the bottom of the box or receptacle, and the stopper will suitably cork the bottle.

I will now describe the construction illustrated in Figs. 3 and 4 of the drawings. In this form the base *a'* is supported on the legs a^4, and the base *a'* is built out of thin material, preferably metal, so that the circular depression a^2 of the construction illustrated in Figs. 1 and 2 forms a hole through the base. A slight shoulder or edge is then put on the bottom of the bottle to be retained in the device, to prevent the bottle from reaching through or falling through the hole.

a^2 is an upright rod or post performing substantially the same functions, so far as this invention is concerned, as the sides a^2 of the construction illustrated in Figs. 1 and 2. I therefore retain the same lettering as is given the sides a^2 in the first-described construction.

E is the base of the stopper, and this base E is secured on upright a^2 at any desired height by set-screw E'. By securing the base E directly to the upright a^2 the top *a* of the construction first described may be and is dispensed with.

B is the stem of the stopper; C, a button on the lower end thereof; D, a washer on the button C, and E the spring forcing the stopper downward into the neck of the bottle X. (Bottle X is indicated by dotted lines.)

The operation of this construction is the same as that of the transportation receptacle or case hereinbefore described.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination of a receptacle, a stopper-stem base secured to the receptacle and having a hole therein, the front and rear edges thereof being inclined diagonally toward the front of the receptacle, a stopper-stem passing loosely through the hole in such base and movably secured therein, a button secured to the lower end of the stopper-stem and having a washer thereon adapted to close the opening in the neck of a bottle, and a spiral spring interposed between the button and the stopper-stem base and around the stopper-stem, whereby a bottle placed in the receptacle will be corked and held in place therein by the insertion of the stopper in the neck of such bottle, and while the bottle is being inserted in the receptacle the axis of the stopper-stem will be coincident with the axis of the bottle, substantially as described.

2. The combination of a receptacle, a stopper-stem base secured to the receptacle, a hole in such base having the front and rear edges thereof inclined diagonally toward the front of the receptacle, a stopper-stem passing loosely through the hole in such base and secured therein by a washer rigidly attached to the upper end of such stopper-stem, a button secured to the lower end of the stopper-stem adapted to close the opening in the neck of a bottle, and a spiral spring interposed between the button and the stopper-stem base and around the stopper-stem, whereby such button may be drawn forward and assume a position in the neck of the bottle being inserted in the receptacle, such that the axis of the stopper-stem will be the same as the axis of the bottle being inserted, substantially as described.

FREDERICK HENKEL.

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